

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method for part purification of fibrinogen having a high A α -chain integrity from milk, comprising the following steps:
 - a) precipitating the fibrinogen from milk;
 - b) separating the precipitated fibrinogen from protease enzymes contained in whey and thereby recovering a part-purified fibrinogen, wherein said part-purified fibrinogen comprises high and low molecular weight sub-fractions;
 - c) contacting the part-purified fibrinogen with a hydrophobic interaction chromatography resin under conditions wherein the fibrinogen binds to the resin; and
 - d) removing the bound fibrinogen by means of elution, ~~which fibrinogen has~~ wherein elution results in the selective removal of said fibrinogen sub-fractions to produce high A α -chain integrity fibrinogen.
2. (Cancelled).
3. (Previously Presented) The method of Claim 1, wherein the precipitation step, separation step, or both are achieved in the presence of lysine, a lysine analogue, ϵ -aminocaproic acid, or a combination thereof.
4. (Cancelled).
5. (Previously presented) A method for obtaining fibrinogen having a high A α -chain integrity from milk derived from a transgenic mammal, the method comprising:
 - (a) contacting the milk with a hydrophobic interaction chromatography resin under conditions wherein the fibrinogen in the milk binds to the resin, wherein said fibrinogen comprises high and low molecular weight sub-fractions; and

(b) removing the bound fibrinogen by means of elution, ~~which fibrinogen has~~
wherein elution results in the selective removal of said fibrinogen sub-fractions to produce high
A α -chain integrity fibrinogen.

6 - 8. (Cancelled).

9. (Previously Presented) The method of Claim 1, wherein the protease enzyme is plasmin, plasminogen, or combination thereof.

10- 11. (Cancelled).

12. (Previously Presented) The method of Claim 1, wherein the milk comprises whole milk, skimmed milk, or a milk fraction.

13. (Previously Presented) The method of Claim 1, wherein the milk is derived from a sheep, cow, goat, rabbit, camel, water buffalo, pig or horse.

14. (Previously presented) The method of Claim 1, wherein the fibrinogen is bovine or human derived.

15 - 31. (Cancelled).